

# Certificate Course in Machine Learning using Python

**Eligibility** : Basic knowledge of any Programming language.

**Duration** : 60 Hours ( 2 - 3 Hrs/Day)

## Course Outline:

- ✓ **Python**: Introduction, Jupyter Interface, Python Language, its programming constructs, various datatypes, operators.
- ✓ **Conditional statements Loops and control flow**: If else statements, For loop, While loop, break and Continue.
- ✓ **Data Structures - Collection Datatypes**: Strings, Lists, Tuples, Sets and Dictionaries.
- ✓ **Functions**: Function definition, calling a function.
- ✓ **Modules**: Importing various modules in python program.
- ✓ **Numpy** : Python NumPy library for n-dimensional arrays.
- ✓ **Data Science Concepts & Machine Learning**: Machine Learning types and applications, Feature Matrix, Training, Test and Validation Matrix, SciPy and sklearn.
- ✓ **Pandas** : Python Pandas Library for file handling, Data Frames for data analytics, importing json and csv files.
- ✓ **Visualization** through matplotlib and seaborn
- ✓ Applied Machine Learning and implementation.